

Title (en)  
SURFACE-MODIFIED NANOFILLER AND POLYMER COMPOSITE MATERIAL

Title (de)  
OBERFLÄCHENBEHANDELTER NANOFÜLLSTOFF UND POLYMERWERBUNDWERKSTOFF

Title (fr)  
NANOCHARGES A SURFACE MODIFIEE ET MATERIAU POLYMERE COMPOSITE

Publication  
**EP 1908801 A1 20080409 (EN)**

Application  
**EP 06767149 A 20060622**

Priority  

- JP 2006312491 W 20060622
- JP 2005185246 A 20050624
- JP 2005376093 A 20051227

Abstract (en)  
The object of the present invention is to offer a polymer composite material that provides superior heat resistance, mechanical physical properties, substance permeation barrier properties, flame retardant properties, electrical conductivity and the like. Moreover, another object of the present invention is to offer a novel surface-modified nanofiller that utilizes this type of polymer composite material. The polymer composite material contains nanofillers, fluorocompounds and polymers. The fluorocompounds bond to the surface of the nanofillers. The nanofillers to which fluorocompounds are surface-bonded are mixed with or dispersed in polymers.

IPC 8 full level  
**C08L 101/00** (2006.01); **C08K 9/04** (2006.01); **C08L 101/04** (2006.01)

CPC (source: EP US)  
**B82Y 30/00** (2013.01 - EP US); **C08J 5/005** (2013.01 - EP US); **C08K 9/04** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1908801 A1 20080409**; **EP 1908801 A4 20141022**; JP 2013032281 A 20130214; JP 5228486 B2 20130703; JP 5387748 B2 20140115; JP WO2006137475 A1 20090122; US 2010160503 A1 20100624; US 7989535 B2 20110802; WO 2006137475 A1 20061228

DOCDB simple family (application)  
**EP 06767149 A 20060622**; JP 2006312491 W 20060622; JP 2007522357 A 20060622; JP 2012233182 A 20121022; US 99344606 A 20060622